	Application No.	Applicant(s)
Notice of Allowability		
	10/612,913 Examiner	SUMINO ET AL. Art Unit
		2010
	Tu-Tu Ho	2818
The MAILING DATE of this communication apperation apperation allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap) or other appropriate communication IGHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>Amendment filed 12/</u>	<u>30/2004</u> .	
2. X The allowed claim(s) is/are <u>1-4</u> .		
3. \boxtimes The drawings filed on <u>07 July 2003</u> are accepted by the Ex	xaminer.	
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. e been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv		
6. CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1) each sheet. Replacement sheet(s) should be labeled as such in the second sheet.	son's Patent Drawing Review(PTO s Amendment / Comment or in the C	Office action of ngs in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
	·	
Attachment(s)	e 🗇 Nieko seletani - Ne	Potent Application (DTO 450)
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 		Patent Application (PTO-152)
	Paper No./Mail Da	te
 Information Disclosure Statements (PTO-1449 or PTO/SB/ Paper No./Mail Date 	08), 7. ⊠ Examiner's Amend	ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Statement	ent of Reasons for Allowance
of Biological Material	9: Other	
David Nelms Supervisory Patent Examiner Technology Center 2800		

DETAILED ACTION

1. Applicant's Amendment filed 12/30/2004 has been reviewed and placed of record in the file.

Examiner's Amendment

- 2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- This application is in condition for allowance except for the presence of claims 5-8 non-3. elected without traverse. Accordingly, claims 5-8 have been cancelled.

Allowable Subject Matter

Claims 1-4 are allowable over the prior art of record. 4.

The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or render obvious a non-volatile semiconductor memory device with all limitations as recited in claim 1, comprising a semiconductor substrate, two spaced trenches, a floating electrode, and a control gate, characterized in that an isolation insulator fills each of the trenches, the isolation insulator comprises a first oxide film and a second HDP-CVD oxide film, the second oxide film has an upper surface extending downwardly toward the semiconductor

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substrate, that the upper surface of the second oxide film is in contact with a portion of the floating electrode, and that said portion extends below the main surface of said semiconductor

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substrate.

Allowance."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu-Tu Ho whose telephone number is (571) 272-1778. The examiner can normally be reached on 6:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DAVID NELMS can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

January 28, 2005

Supervisory Patent Examiner Technology Center 2800